

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:****FINOTOP PU 2K 770 - Komponente A****1.2 Relevant identified uses of the substance or mixture and uses advised against****Life cycle stages**

C/PW Consumer use / Widespread use by professional workers

Sector of Use

SU19 Building and construction work

Process category

PROC19 Manual activities involving hand contact

PROC11 Non industrial spraying

PROC10 Roller application or brushing

Environmental release category

ERC10a / ERC11a Widespread use of articles with low release

Article category

AC0 Other

Technical function Plating agent**Application of the substance / the preparation**Coating material - Product for an industrial, technical and private use for coating building surfaces.
For all other uses is advised against/ not recommended.**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**KREISEL - Technika Budowlana Sp. z o.o.
ul. Szarych Szeregów 23
60-462 Poznań
Poland

Tel. +48 61 846 79 00

Fax +48 61 846 79 09

sekretariat@kreisel.pl

www.kreisel.pl

Further information obtainable from:

Bartosz Polaczyk - Tel.: +48 510 022 908, +48 61 84 67 966, bartosz.polaczyk@kreisel.pl

On working days 8 a.m. - 4 p.m.

1.4 Emergency telephone number

National poisons information centre: +44/(0)171 - 635 9191

National Health Service: 111

European emergency call: 112

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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the GB CLP regulation.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

Void

Hazard pictograms

Void

Signal word

Void

Hazard statements

Void

Precautionary statements

Observe the general safety regulations when handling chemicals.

Additional information:

EUH208 Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

Contains the following biocidal active ingredients to protect the product. Please note the information in the safety data sheet and the legal regulations: BIT, ZINC PYRITHIONE

2.3 Other hazards

No further relevant information available.

Results of PBT and vPvB assessment**PBT:**

This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

vPvB:

This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Determination of endocrine-disrupting properties

This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

SECTION 3: Composition/information on ingredients**3.1 Chemical characterization: Substances**

This product is a mixture.

3.2 Mixtures**Description:**

Mixture of substances listed below with nonhazardous additions

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Dangerous components:

CAS: 2634-33-5 EINECS: 220-120-9 Index number: ... 613-088-00-6 REACH: 01-2120761540-60	1,2-Benzisothiazol-3(2H)-one  Acute Tox. 2, H330;  Eye Dam. 1, H318;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LD ₅₀ oral: 450 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 %	< 0.02%
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Additional information:

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures


First aid

General information:

For first responder no special personal protective equipment is required. First responder should avoid contact with the product.

After inhalation:

Take affected persons into fresh air and keep quiet. Seek medical treatment in case of complaints. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately remove all soiled and contaminated clothing. Wash contaminated clothes before reuse. Clean contaminated shoes before reuse. If skin irritation continues, consult a doctor.

After eye contact:

Do not rub eyes because additional damage to eyes can be caused by mechanical stress. If necessary, remove contact lenses and flush the eye immediately while holding eyelids open to water for at least 20 minutes. If possible, isotonic eyewash solution (e. g. 0,9% NaCl). Always consult an occupational physician or ophthalmologist.

After swallowing:

Do not induce vomiting. If conscious rinse mouth with water and drink plenty of water. Consult a physician or poison control center.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are described in section 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

If a physician is to be consulted, as per possibility he should be presented this safety data sheet.

SECTION 5: Firefighting measures
5.1 Extinguishing media
Suitable extinguishing agents:

The mixture is flammable neither in the delivery condition not in mixed conditions. Extinguisher and fire fighting are therefore adjusted to the surrounding fire.

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5.2 Special hazards arising from the substance or mixture

This product is neither explosive nor flammable, and non-oxidizing with other materials. Particular danger of slipping on leaked/spilled product.

5.3 Advice for firefighters

No special measures required. Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

If appropriate, reference must be made to exposure controls and personal protection (see section 8).

6.2 Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace. Avoid contact with the eyes and skin. Wear protective clothing. Washing facilities / Water for cleaning eyes and skin should be available. Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product. Do not eat, drink, smoke or sniff while working.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities**Requirements to be met by storerooms and receptacles:**

Keep out of reach of children. Store in cool, dry place in tightly closed receptacles.

Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and feed.

Further information about storage conditions:

Protect from frost. Protect from heat and direct sunlight.

Minimum storage life:

Minimum storage life (+5°C up to 25°C): See indication on package.

Storage class: 12

Classification according to the German Industrial Safety and Health Ordinance (BetrSichV): -

7.3 Specific end use(s)

No further relevant information available.

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SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs
2634-33-5 1,2-Benzisothiazol-3(2H)-one

Dermal	Systemic - Long term exposure	0.345 mg/kg bw/d (Consumer) 0.966 mg/kg bw/d (Employee)
Inhalative	Systemic - Long term exposure	1.2 mg/m ³ (Consumer) 6.81 mg/m ³ (Employee)

PNECs
2634-33-5 1,2-Benzisothiazol-3(2H)-one

Freshwater	0.00403 mg/l (not specified)
Marine water	0.000403 mg/l (not specified)
Soil	3 mg/kg (not specified)
Sediments (Freshwater)	0.0499 mg/kg (not specified)
Sediments (Marine water)	0.000499 mg/kg (not specified)
Sewage plant	1.03 mg/l (not specified)

Ingredients with biological limit values:

Void

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls
8.2.1. Information about design of technical facilities

No further data; see item 7.

8.2.2. Individual protection measures, such as personal protective equipment
General protective and hygienic measures:

Use skin protection cream for skin protection. Avoid close or long term contact with the skin. Avoid contact with the eyes. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Do not eat, drink, smoke or sniff while working.

Respiratory protection:


Use suitable respiratory protective device only when aerosol or mist is formed (FFP2 according to EN 149)

Hand protection:


Hand protection: Chemical resistant protective gloves according EN ISO 374

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended. To avoid skin problems reduce the wearing of gloves to the required minimum.

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Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Polychloroprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
 Nitrile rubber (material thickness ≥ 0.35 mm ; breakthrough time ≥ 480 min.)
 Butyl rubber (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
 Fluororubber (material thickness ≥ 0.4 mm ; breakthrough time ≥ 480 min.)
 Neoprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)

Not suitable are gloves made of the following materials:

Non-liquid-tight gloves made of fabric, leather or similar materials.

Eye/face protection:


In case of splash risk use tightly fitting safety goggles according to EN 166.

Body protection:


Protective work clothing

Risk management measures:

An operator training/guidance in the correct use of personal protective equipment is necessary to ensure the required level of effectiveness.

8.2.3. Environmental exposure controls

Avoid release in the environment. Use the surplus or dispose it of properly.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties
General Information
Physical state

Liquid

Appearance:
Form:

Liquid

Colour:

Colourless

Odour:

Characteristic

Odour threshold:

Not safety relevant

pH at 20 °C (68 °F)

7 - 9

Change in condition
Melting point/freezing point:

Undetermined

Boiling point or initial boiling point and boiling range

Undetermined

Flammability

Product is not flammable.

Flash point:

Not applicable

Oxidising properties:

None

Explosive properties:

Product does not present an explosion hazard.

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Ignition temperature:	Product is not selfigniting.
Vapour pressure:	Not determined
Density and/or relative density	
Density at 20 °C (68 °F):	1 - 1.1 g/cm ³ (8.35 - 9.18 lbs/gal)
Particle size	
Solubility	
Water:	Fully miscible
Partition coefficient n-octanol/water (log value)	Not determined
Solvent content:	
Organic solvents:	< 12.7 %
VOC without water (EC):	< 140.00 g/l
VOC with water (EC):	< 140.00 g/l
VOC with water (EC):	< 12.700 %

9.2 Other information
Information with regard to physical hazard classes

Explosive substances / mixtures and articles containing explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity
10.1 Reactivity

No dangerous reactions known.

10.2 Chemical stability:

The product is stable as long as it is stored properly and dry.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

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10.6 Hazardous decomposition products

No dangerous decomposition products known.

Additional information:

No further relevant information available.

SECTION 11: Toxicological information
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

The product was not investigated. The statement is derived from the properties of the single components.

Acute toxicity:

Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:
2634-33-5 1,2-Benzisothiazol-3(2H)-one

Oral	LD ₅₀	450 mg/kg (ATE) 1,150 mg/kg (Mouse) 597 mg/kg (Rat)
Dermal	LD ₅₀	> 2,000 mg/kg (Rat)
Inhalative	LC ₅₀ (4h)	0.05 mg/l (ATE)

Other information (about experimental toxicology):
Primary irritant effect:
On the skin:

Based on available data, the classification criteria are not met.

On the eye:

Based on available data, the classification criteria are not met.

Sensitization:

Sensitising effect by skin contact is possible by prolonged exposure.

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure (STOT SE):

Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure (STOT RE):

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Practical experience

No further relevant information available.

General comments

No further relevant information available.

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11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

The product was not investigated. The statement is derived from the properties of the single components.

Aquatic toxicity:

2634-33-5 1,2-Benzisothiazol-3(2H)-one

LC ₅₀ (96h)	1.6 mg/l (Fish - oncorhynchus mykiss) (OECD 203)
EC ₅₀ (48h)	3.27 mg/l (Water flea - daphnia magna)
	1.5 mg/l (Water flea - daphnia)
EC ₅₀ (72h)	0.11 mg/l (Algae - selenastrum capricornutum) (OECD 201)
	2 mg/l (Algae scenedesmus subcapitatus)
EC ₅₀ (16h)	0.4 mg/l (Pseudomonas putida)
EC ₁₀ (72h)	0.04 mg/l (Algae - selenastrum capricornutum) (OECD 201)
NOEC (21d)	1.2 mg/l (Water flea - daphnia magna) (OECD 202)
NOEC (28d)	0.21 mg/l (Fish - oncorhynchus mykiss) (OECD 215)

12.2 Persistence and degradability

A part of the components is biodegradable.

Degree of elimination:

2634-33-5 1,2-Benzisothiazol-3(2H)-one

Biodegradation	> 70 % (Activated sewage sludge) (OECD 303 A)
	> 90 % (not specified) (OECD 302 B)

12.3 Bioaccumulative potential

2634-33-5 1,2-Benzisothiazol-3(2H)-one

Log Kow	0.7 (not specified) (OECD 117)
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Bioconcentration factor (BCF)

2634-33-5 1,2-Benzisothiazol-3(2H)-one

Bioconcentration factor (BCF)	6.95 (not specified) (OECD 305)
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12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT:

This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

vPvB:

This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

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12.7 Other adverse effects
Literature

No further relevant information available.

Ecotoxicological effects:

No further relevant information available.

Behaviour in sewage processing plants:
2634-33-5 1,2-Benzisothiazol-3(2H)-one

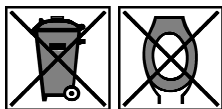
EC ₂₀ (0,5h)	3.3 mg/l (Activated sludge organisms) (OECD 209)
EC ₂₀ (3h)	3.3 mg/l (Activated sludge organisms) (OECD 209)
EC ₅₀ (3h)	13 mg/l (Activated sludge organisms) (OECD 209)
OECD 302 B Zahn Wellens Test	90 % (Activated sludge organisms) (OECD 302)
OECD 303 A Activated Sludge Units	% (Rat)
	> 70 % (Activated sludge organisms) (OECD 303 A)

Additional ecological information:
General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Recommendation:


Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Dispose of contents/container in accordance with local/regional/national/international regulations.

European waste catalogue

08 01 12	Waste paint and varnish other than those mentioned in 08 01 11
15 01 04	Metallic packaging

08 01 12 for residues of the unprocessed product

15 01 04 for the completely emptied packaging

Uncleaned packaging
Recommendation:

Disposal must be made according to official regulations.

Recycle only completely emptied packaging.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

GB

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SECTION 14: Transport information
14.1 UN number or ID number
 ADR, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, IMDG, IATA

Void

14.3 Transport hazard class(es)

 ADR, ADN, IMDG, IATA
 Class

Void

14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to
 IMO instruments

Not applicable

UN "Model Regulation":

Void

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe the general safety regulations when handling chemicals.

Poisons Act
Regulated explosives precursors

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

Directive 2004/42/EC

IIA(j) 140 - this product contains < 140 g/l VOC (see chapter 9)

Product type: PAINTS AND VARNISHES

- Product subcategory: Two-pack reactive performance coatings for specific end use such as floors
- Water-borne coatings, Limit value: 140 g/l

Directive (EU) 2012/18
Named dangerous substances - ANNEX I :

None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII :
Additional information on Entry 78

The product does not contain synthetic polymeric microplastics >0.01% according to EC 2055/2023.

Regulation (EU) No 649/2012
Annex I - RESTRICTED EXPLOSIVES PRECURSORS
(Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients are included.

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Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

National regulations:

Waterhazard class:

Water hazard class 2 (Self-assessment): Hazardous for water

Other regulations, limitations and prohibitive regulations:

· Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

· Commission Regulation (EU) No 878/2020 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH)

· Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

· Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste

· Regulation (EC) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Reasons for changes:

* Data compared to the previous version altered.

Relevant phrases:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Advice for instructions:

Additional trainings, which go beyond the prescribed training in activities involving hazardous substances are not required.

Department issuing MSDS:

Product safety department (+43/(0)5522-41646-0 / klaus.ritter@fixit-gruppe.com)

Contact:

Dr. Klaus Ritter

Abbreviations and acronyms:

MAK: Maximale Arbeitsplatz-Konzentration (maximum concentration of a chemical substance in the workplace, Austria/Germany)

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PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent, bioaccumulative properties
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Further information:

The information in this safety data sheet describe the safety requirements of our product and is based on our current state of our knowledge. They provide no assurance of product quality. Existing laws, ordinances and regulations, including those that are not mentioned in this data sheet must be observed by the recipient of our products in their own responsibility.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:****FINOTOP PU 2K 770 - Komponente B****1.2 Relevant identified uses of the substance or mixture and uses advised against****Life cycle stages**

C/PW Consumer use / Widespread use by professional workers

Sector of Use

SU19 Building and construction work

Product category

PC15 Non-metal-surface treatment products

Process category

PROC19 Manual activities involving hand contact

PROC11 Non industrial spraying

PROC10 Roller application or brushing

Environmental release category

ERC10a / ERC11a Widespread use of articles with low release

Article category

AC0 Other

Technical function Plating agent**Application of the substance / the preparation**Coating material - Product for an industrial, technical and private use for coating building surfaces.
For all other uses is advised against/ not recommended.**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**KREISEL - Technika Budowlana Sp. z o.o.
ul. Szarych Szeregów 23
60-462 Poznań
Poland

Tel. +48 61 846 79 00

Fax +48 61 846 79 09

sekretariat@kreisel.pl

www.kreisel.pl

Further information obtainable from:

Bartosz Polaczyk - Tel.: +48 510 022 908, +48 61 84 67 966, bartosz.polaczyk@kreisel.pl

On working days 8 a.m. - 4 p.m.

1.4 Emergency telephone number

National poisons information centre: +44/(0)171 - 635 9191

National Health Service: 111

European emergency call: 112

FINOTOP PU 2K 770 - Komponente B

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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4 H332 Harmful if inhaled.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms

GHS05 GHS07

Signal word

Danger

Hazard-determining components of labelling:Hexamethylene diisocyanate, Oligomers
2-(Tricylcoxy) ethyl dihydrogen phosphate
Hexamethylene-1,6-diisocyanate**Hazard statements**

H332 Harmful if inhaled.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in keeping with local and national regulations.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

This product contains organic solvents. Avoid inhalation, skin contact, ingestion. In use, may form flammable / explosive vapour-air mixture. Repeated exposure may cause skin dryness or cracking.

Results of PBT and vPvB assessment**PBT:**

This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

(Contd. on page 3)

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(Contd. of page 2)

vPvB:

This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Determination of endocrine-disrupting properties

This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

SECTION 3: Composition/information on ingredients
3.1 Chemical characterization: Substances

This product is a mixture.

3.2 Mixtures**Description:**

Mixture of substances listed below with nonhazardous additions

Dangerous components:

CAS: 28182-81-2 NLP: 500-060-2 REACH: 01-2119485796-17	Hexamethylene diisocyanate, Oligomers ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	< 97%
CAS: 9046-01-9 REACH: ²	2-(Tricycloxy) ethyl dihydrogen phosphate ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Aquatic Chronic 3, H412	< 4%
CAS: 98-94-2 EINECS: 202-715-5 REACH: 01-2119533030-60	Cyclohexyldimethylamine ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411	< 1%
CAS: 822-06-0 EINECS: 212-485-8 Index number:... 615-011-00-1 REACH: 01-2119457571-37	Hexamethylene-1,6-diisocyanate ⚠ Acute Tox. 3, H331; ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	< 0.1%

Additional information:

For the wording of the listed hazard phrases refer to section 16.

² A registration number for this substance / mixture is not available. The substance is exempt from registration, the annual tonnage does not require registration, or registration is scheduled for later.

SECTION 4: First aid measures
4.1 Description of first aid measures

First aid

General information:

Seek medical treatment in case of complaints. In case of unconsciousness give nothing by mouth, place in unconscious position. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. For first responder no special personal protective equipment is required. First responder should avoid contact with the product.

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After inhalation:

Take affected persons into fresh air and keep quiet. Seek medical treatment in case of complaints. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately remove all soiled and contaminated clothing. Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent. Do not use solvents and thinners. Avoid sunlight and UV light (sensitisation). If skin irritation continues, consult a doctor.

After eye contact:

Do not rub eyes because additional damage to eyes can be caused by mechanical stress. If necessary, remove contact lenses and flush the eye immediately while holding eyelids open to water for at least 20 minutes. If possible, isotonic eyewash solution (e. g. 0,9% NaCl). Always consult an occupational physician or ophthalmologist.

After swallowing:

Do not induce vomiting. If conscious rinse mouth with water and drink plenty of water. Consult a physician or poison control center.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are described in section 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

If a physician is to be consulted, as per possibility he should be presented this safety data sheet.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposition products can cause serious health damage.

5.3 Advice for firefighters

Wear protective equipment. Keep unprotected persons away.

Protective equipment:

Use adequate breathing protection and inherent protection clothes in dependance on extent of fire.

Additional information:

Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Keep away from ignition sources. Avoid inhalation, eye and skin contact. Keep people at a distance and stay on the windward side. If appropriate, reference must be made to exposure controls and personal protection (see section 8).

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 5)

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(Contd. of page 4)

6.3 Methods and material for containment and cleaning up

This material hardens automatically when exposed to air. Allow to solidify and pick up mechanically. Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Avoid contact with the eyes and skin. Wear protective clothing. Washing facilities / Water for cleaning eyes and skin should be available. Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product. Do not eat, drink, smoke or sniff while working.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities**Requirements to be met by storerooms and receptacles:**

Keep out of reach of children. Store product in ventilated conditions in well sealed original receptacles. Provide floor trough without outlet.

Information about storage in one common storage facility:

Store away from oxidising agents.

Keep away from foodstuffs, beverages and feed.

Further information about storage conditions:

Protect from frost. Protect from heat and direct sunlight.

Minimum storage life:

Minimum storage life (+5°C up to 25°C): See indication on package.

Storage class: 10

Classification according to the German Industrial Safety and Health Ordinance (BetrSichV): -

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:****822-06-0 Hexamethylene-1,6-diisocyanate**

WEL (Great Britain)	Short-term value: 0.07 mg/m ³
	Long-term value: 0.02 mg/m ³
Sen; as -NCO	
BOELV (EU)	Short-term value: 0.012 (0.020)* mg/m ³
	Long-term value: 0.006 (0.010)* mg/m ³
as -NCO *until 31.12.2028	

DNELs**28182-81-2 Hexamethylene diisocyanate, Oligomers**

Inhalative	Local - Long term exposure	0.5 mg/m ³ (Employee)
	Local - Short term exposure	1 mg/m ³ (Employee)

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(Contd. of page 5)

98-94-2 Cyclohexyldimethylamine

Oral	Long term exposure	0.5 mg/kg bw/d (Consumer)
Dermal	Systemic - Long term exposure	1.4 mg/kg bw/d (Employee)
Inhalative	Systemic - Long term exposure	0.86 mg/m ³ (Consumer)
		4.94 mg/m ³ (Employee)
	Systemic - Short term exposure	8.3 mg/m ³ (Employee)
	Local - Long term exposure	8.3 mg/m ³ (Employee)

822-06-0 Hexamethylene-1,6-diisocyanate

Inhalative	Local - Long term exposure	0.035 mg/m ³ (Employee)
	Local - Short term exposure	0.07 mg/m ³ (Employee)

PNECs
28182-81-2 Hexamethylene diisocyanate, Oligomers

Freshwater	0.127 mg/l (not specified)
Marine water	0.013 mg/l (not specified)
Soil	53,183 mg/kg (not specified)
Sediments (Freshwater)	266,701 mg/kg (not specified)
Sediments (Marine water)	266,670 mg/kg (not specified)
Sewage plant	88 mg/l (not specified)

98-94-2 Cyclohexyldimethylamine

Freshwater	0.035 mg/l (not specified)
Marine water	0.001 mg/l (not specified)
Soil	0.544 mg/kg (not specified)
Sediments (Freshwater)	2.76 mg/kg (not specified)
Sediments (Marine water)	0.276 mg/kg (not specified)
Sewage plant	20.6 mg/l (not specified)

822-06-0 Hexamethylene-1,6-diisocyanate

Sewage plant	8.42 mg/l (not specified)
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Ingredients with biological limit values:
822-06-0 Hexamethylene-1,6-diisocyanate

BMGV (Great Britain)	1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period of exposure Parameter: isocyanate-derived diamine
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Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls
8.2.1. Information about design of technical facilities

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

8.2.2. Individual protection measures, such as personal protective equipment
General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Remove contaminated clothing immediately and thoroughly clean it before using it again. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Ensure that washing facilities are available at the work place.

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Respiratory protection:


This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (Type A1 according to standard EN 14387) is used.

Hand protection:


Hand protection: Chemical resistant protective gloves according EN ISO 374

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended. To avoid skin problems reduce the wearing of gloves to the required minimum.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Polychloroprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
 Nitrile rubber (material thickness ≥ 0.35 mm ; breakthrough time ≥ 480 min.)
 Butyl rubber (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)
 Fluororubber (material thickness ≥ 0.4 mm ; breakthrough time ≥ 480 min.)
 Neoprene (material thickness ≥ 0.5 mm ; breakthrough time ≥ 480 min.)

Not suitable are gloves made of the following materials:

Non-liquid-tight gloves made of fabric, leather or similar materials.

Eye/face protection:


In case of splash risk use tightly fitting safety goggles according to EN 166.

Risk management measures:

An operator training/guidance in the correct use of personal protective equipment is necessary to ensure the required level of effectiveness.

8.2.3. Environmental exposure controls

Avoid release in the environment. Use the surplus or dispose it of properly.
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow product to reach sewage system or any water course.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties
General Information
Physical state

Liquid

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Appearance:	
Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not safety relevant
pH at 20 °C (68 °F)	7 - 9
Change in condition	
Melting point/freezing point:	Undetermined
Boiling point or initial boiling point and boiling range	150 °C (302 °F)
Flammability	
Flash point:	160 °C (320 °F)
Oxidising properties:	None
Explosive properties:	Not determined
Ignition temperature:	Product is not selfigniting.
Vapour pressure:	Not determined
Density and/or relative density	
Density at 20 °C (68 °F):	1.1 - 1.15 g/cm ³ (9.18 - 9.6 lbs/gal)
Particle size	
Solubility	
Water:	Not determined
Partition coefficient n-octanol/water (log value)	Not determined
VOC without water (EC):	9.9 - 10.35 g/l
VOC with water (EC):	9.9 - 10.35 g/l
VOC with water (EC):	0.900 %

9.2 Other information
Information with regard to physical hazard classes

Explosive substances / mixtures and articles containing explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity
10.1 Reactivity

No dangerous reactions known (see 10.5).
No further relevant information available.

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10.2 Chemical stability:

Stable at environment temperature.

Thermal decomposition / conditions to be avoided:

Formation of toxic gases is possible during heating or in case of fire.

10.3 Possibility of hazardous reactions

Exothermic polymerisation.

Reacts with alcohols, amines, aqueous acids and alkalis.

10.4 Conditions to avoid

Keep away from heat and direct sunlight.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Formation of toxic gases is possible during heating or in case of fire.

Additional information:

No further relevant information available.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute toxicity:**

Harmful if inhaled.

LD/LC50 values relevant for classification:**ATE (Acute Toxicity Estimates)**

Oral	LD ₅₀	18,333 mg/kg (Rat)
Dermal	LD ₅₀	41,111 mg/kg (Rat)
Inhalative	LC ₅₀ (4h)	> 10.8 mg/l

28182-81-2 Hexamethylene diisocyanate, Oligomers

Oral	LD ₅₀	> 2,500 mg/kg (Rat) (OECD 423)
Dermal	LD ₅₀	> 2,000 mg/kg (Rat) (OECD 402)
Inhalative	LC ₅₀ (4h)	11 mg/l (ATE)

9046-01-9 2-(Tricycloxy) ethyl dihydrogen phosphate

Oral	LD ₅₀	> 2,500 mg/kg (Rat) (OECD 401)
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98-94-2 Cyclohexyldimethylamine

Oral	LD ₅₀	165 mg/kg (Rat) (OECD 401)
Dermal	LD ₅₀	370 mg/kg (Rat) (OECD 402)
Inhalative	LC ₅₀ (4h)	> 1.7 mg/l (Rat) (OECD 403)

822-06-0 Hexamethylene-1,6-diisocyanate

Oral	LD ₅₀	959 mg/kg (Rat) (OECD 401)
Dermal	LD ₅₀	7,000 mg/kg (Rat) (OECD 402)
Inhalative	ATE	0.402 mg/l (not specified)
	LC ₅₀ (4h)	0.124 mg/l (Rat) (OECD 403)

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Other information (about experimental toxicology):

28182-81-2 Hexamethylene diisocyanate, Oligomers

Oral	OECD 414	(Rat) negative
	OECD 471	(Salmonella typhimurium) negative
	OECD 422 (Repeated dose reproduction test)	0.3 mg/kg bw/d /NOEL (Rat)
Inhalative	OECD 413 (Subchronic inhalation toxicity 90d)	0.0033 mg/l /NOEL (Rat)
Irritation of skin	OECD 404	(Rabbit) not corrosive
Irritation of eyes	OECD 405	(Rabbit) not corrosive
Sensitisation	OECD 406	(Guinea pig) Sensitizing
	OECD 474	(Mouse) negative

9046-01-9 2-(Tricycloxy) ethyl dihydrogen phosphate

Irritation of skin	OECD 404	(Rabbit) Causes skin irritation
Irritation of eyes	OECD 405	(Rat) Causes serious eye damages

98-94-2 Cyclohexyldimethylamine

Oral	OECD 414	20 /NOEL (mg/kg (Rabbit)
	OECD 471	(Escherichia coli) negative
	OECD 473	(Hamster) negative
	OECD 408 (Repeated dose oral toxicity 90d)	100 mg/kg bw/day /NOEL (Rat)
	OECD 422 (Repeated dose reproduction test)	> 1,500 mg/kg bw/d /NOEL (Rat)
Irritation of skin	OECD 404	(Rat) Corrosive cat. 1B
Irritation of eyes	OECD 405	(Rabbit) Corrosive cat. 1
Sensitisation	OECD 429	(Mouse) not sensitizing

822-06-0 Hexamethylene-1,6-diisocyanate

Oral	OECD 471	(Salmonella typhimurium) negative
	OECD 422 (Repeated dose reproduction test)	0.3 mg/kg bw/d /NOEL (Rat)
Irritation of skin	OECD 404	(Rabbit) corrosive
Irritation of eyes	OECD 405	(Rabbit) corrosive
Sensitisation	OECD 406	(Guinea pig) sensitising
	OECD 453	0.005 /ppm NOAEC (Rat)

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	OECD 474	(Mouse) negative
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Primary irritant effect:**On the skin:**

Based on available data, the classification criteria are not met.

On the eye:

Causes serious eye damage.

Sensitization:Sensitising effect by skin contact is possible by prolonged exposure.
May cause an allergic skin reaction.**Germ cell mutagenicity:**

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure (STOT SE):

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (STOT RE):

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Practical experience

No further relevant information available.

General comments

No further relevant information available.

Subacute to chronic toxicity:

Long term and repeated contact with the mixture can remove the natural fatty film of skin and may cause non-allergical contact dermatitis and penetrating of epidermic.

11.2 Information on other hazards**Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity**Aquatic toxicity:****28182-81-2 Hexamethylene diisocyanate, Oligomers**

LC ₅₀ (96h)	100 mg/l (Fish - danio rerio)
EC ₁₀	370 mg/l (Algae)
	8,880 mg/l /NOEC (General microorganisms) (OECD 209)
EC ₅₀	1,000 mg/l (Algae)
EL ₅₀ (48h)	127 mg/l (Water flea - daphnia magna)
EC ₅₀ (3h)	3,828 mg/l (Activated sewage sludge) (OECD 209)

98-94-2 Cyclohexyldimethylamine

LC ₅₀ (96h)	28 mg/l (Fish - oncorhynchus mykiss) (OECD 203)
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LC ₅₀ (48h)	75 mg/l (Water flea - daphnia magna) (OECD 202)
EC ₅₀ (72h)	3.5 mg/l (Algae - pseudokirchneriella subcapitata) (OECD 201)
EC ₅₀ (16h)	206 mg/l (Bacteria - pseudomonas putidas) (DIN 38412-8)
EC ₁₀ (72h)	1.05 mg/l (Algae - pseudokirchneriella subcapitata)
EC ₁₀ (21d)	0.754 mg/l (Water flea - daphnia magna) (BASF SE, 2022)
822-06-0 Hexamethylene-1,6-diisocyanate	
LC ₅₀ (48h)	> 100 mg/l (Fish - danio rerio)
EC ₅₀	77.4 mg/l (Algae - desmodesmus subspicatus) 842 mg/l (Activated sewage sludge) (OECD 209)
LC ₀ (96h)	> 82.8 mg/l (Fish - danio rerio)
EC ₀	> 89.1 mg/l /48h (Aquatic invertebrates)
EC ₅₀ (48h)	> 100 mg/l (Water flea - daphnia magna)
EC ₅₀ (72h)	> 100 mg/l (Algae scenedesmus subcapitatus)

12.2 Persistence and degradability

A part of the components is biodegradable.

Degree of elimination:**822-06-0 Hexamethylene-1,6-diisocyanate**

Biodegradation (not specified)

12.3 Bioaccumulative potential**822-06-0 Hexamethylene-1,6-diisocyanate**

Log Kow 57.6 (not specified)

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment**PBT:**

This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

vPvB:

This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

12.7 Other adverse effects**Literature**

No further relevant information available.

Ecotoxicological effects:

No further relevant information available.

Remark:

Harmful to fish

Behaviour in sewage processing plants:

No further relevant information available.

Additional ecological information:**General notes:**

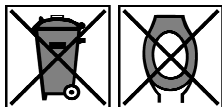
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

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Danger to drinking water if even small quantities leak into the ground.

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SECTION 13: Disposal considerations
13.1 Waste treatment methods
Recommendation:


Must not be disposed together with household garbage. Hand over to hazardous waste disposers.

Risk of environmental pollution. Follow the applicable regulations on waste disposal. Keep unused products and contaminated packaging sealed. Provide containers for waste collection. Hand over for disposal to a specialist company authorised to carry out such activities. Prevent the product from being released into the environment. Do not allow the product to enter the sewage system. Must not be disposed of with municipal waste. Empty containers can be utilised for energy recovery in a waste incineration plant or, if classified accordingly, collected at a landfill site. Perfectly cleaned packaging can be recycled.

Dispose of contents/container in accordance with local/regional/national/international regulations.

European waste catalogue

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
15 01 04	Metallic packaging
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP13	Sensitising

15 01 04 for the completely emptied packaging

Uncleaned packaging
Recommendation:

Disposal must be made according to official regulations.

Recycle only completely emptied packaging.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number ADR, IMDG, IATA	Void
14.2 UN proper shipping name ADR, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards	Not applicable

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14.6 Special precautions for user	Not applicable
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14.7 Maritime transport in bulk according to IMO instruments	Not applicable
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UN "Model Regulation":	Void
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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poisons Act

Regulated explosives precursors
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None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

Directive 2004/42/EC

Product type: PAINTS AND VARNISHES

- Product subcategory: Two-pack reactive performance coatings for specific end use such as floors
- Water-borne coatings, Limit value: 140 g/l

Directive (EU) 2012/18

Named dangerous substances - ANNEX I :

None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII :

Conditions of restriction: 3, 74

Additional information on Entry 78

The product does not contain synthetic polymeric microplastics >0.01% according to EC 2055/2023.

Regulation (EU) No 649/2012

Annex I - RESTRICTED EXPLOSIVES PRECURSORS

(Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients are included.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

National regulations:

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Waterhazard class:

Water hazard class 2 (Self-assessment): Hazardous for water

Other regulations, limitations and prohibitive regulations:

• Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and

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repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

·Commission Regulation (EU) No 878/2020 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH)

·Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

·Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste

·Regulation (EC) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information
Reasons for changes:

* Data compared to the previous version altered.

Relevant phrases:

H226 Flammable liquid and vapour.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008

Acute toxicity - inhalation Serious eye damage/irritation Skin sensitisation Specific target organ toxicity (single exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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Department issuing MSDS:

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Contact:

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Abbreviations and acronyms:

MAK: Maximale Arbeitsplatz-Konzentration (maximum concentration of a chemical substance in the workplace, Austria/Germany)
 PBT: persistent, bioaccumulative and toxic properties
 vPvB: very persistent, bioaccumulative properties
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Further information:

The information in this safety data sheet describe the safety requirements of our product and is based on our current state of our knowledge. They provide no assurance of product quality. Existing laws, ordinances and regulations, including those that are not mentioned in this data sheet must be observed by the recipient of our products in their own responsibility.